Format No: CP/TF/01

# TEST REPORT OF FINE AGGREGATE

**Lab ID** : CP-2018-07-26-08 **Date: 30-07-2018**

**Customer** : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

**Project Name** : Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04

**Agency** : Technical Manager (West),KRIDL,BBMP,Bangalore.

**Customer's Reference** : BBMP/EE(YNK.D)/W.O/000005/2018-19

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 26-07-2018

**Sample ID No** : 2018-07-26-08 /03

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 26-07-2018

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 21 | 21 | 2.1 | 97.9 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 185 | 206 | 20.6 | 79.4 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 201 | 407 | 40.7 | 59.3 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 168 | 575 | 57.5 | 42.5 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 229 | 804 | 80.4 | 19.6 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 153 | 957 | 95.7 | 4.3 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 43 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 30-07-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /02 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 26-07-2018 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 245 | 245 | 4.9 | 95.1 | 90-100 |
| 3 | 10 mm | 2560 | 2805 | 56.1 | 43.9 | 25-55 |
| 4 | 4.75 mm | 2033 | 4838 | 96.8 | 3.2 | 0-10 |
| 5 | Pan | 162 | 5000 | 100 | 0 | - |



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 30-07-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 26-07-2018 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 244 | 244 | 1.6 | 98.4 | 90-100 |
| 3 | 20 mm | 5432 | 5676 | 37.8 | 62.2 | 30-70 |
| 4 | 10 mm | 4332 | 10008 | 66.7 | 33.3 | 10-35 |
| 5 | 4.75 mm | 4654 | 14662 | 97.7 | 2.3 | 0-5 |
| 6 | Pan | 338 | 15000 | 100.0 | 0 | --- |



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# TEST REPORT OF CEMENT CONCRETE KERB STONE

Format No: CP/TF/01

Date: 31-07-2018

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /04 |
| **Sample Type /Size** | : | CC Kerb Stone/ 450*200*400mm |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 27/07/2018 |

| Sl No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| 1 | A | 150.08 | 200.42 | 3.185 | 17687 | 298.7 | 16.9 | 16.9 | 21.1 |
| 2 | B | 150.14 | 200.25 | 3.140 | 17701 | 295.1 | 16.7 | 16.7 | 20.8 |
| 3 | C | 150.11 | 200.15 | 3.175 | 17694 | 301.5 | 17.0 | 17.0 | 21.3 |

Note:
The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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# TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /05 |
| **Sample Type /Size** | : | 100mm thick Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 27/07/2018 |

**Date: 30-07-2018**

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.23 | 100.37 | 2.724 | 4444 | 96.4 | 21.7 | 20.2 | 25.2 |
| 2 | Cover Slab-2 | 75.18 | 100.55 | 2.746 | 4438 | 95.1 | 21.4 | 19.9 | 24.9 |
| 3 | Cover Slab-3 | 75.29 | 100.28 | 2.778 | 4451 | 94.8 | 21.3 | 19.8 | 24.8 |

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Quality Manager

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# TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Format No: CP/TF/01

| | | |
|---|---|---|
| Lab ID | : | CP-2018-07-26-08 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Project Name | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| Agency | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| Customer's Reference | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 26-07-2018 |
| Sample ID No | : | 2018-07-26-08 /06 |
| Sample Type/Size | : | Solid concrete blocks of size (400X200X200)mm |
| Reference to BIS codes | : | IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10) |
| Date of test | : | 27-07-2018 |

Date: 30-07-2018

**BLOCK DENSITY:**

| Sl. No. | Measurement of overall Dimensions of Individual Blocks | | | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*$10^6$ | Avg.Block Density in (Kg/cum) | As per IS 2185 (Part 1):2005 (RA 2010) |
|---|---|---|---|---|---|---|---|---|
| | Length | Breadth | Height | | | | | |
| | mm | mm | mm | ($Cm^3$) | Kg | $Kg/m^3$ | $Kg/m^3$ | |
| 1 | 400 | 201 | 202 | 16241 | 34.250 | 2108.9 | 2128.1 | Not less than 1800$Kg/m^3$ |
| 2 | 401 | 203 | 201 | 16362 | 34.520 | 2109.8 | | |
| 3 | 400 | 200 | 200 | 16000 | 34.650 | 2165.6 | | |

**WATER ABSORPTION:**

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg.Water Absorption | As per IS 2185 (Part 1):2005 (RA 2010) |
|---|---|---|---|---|---|
| | kg | kg | % | % | |
| 1 | 35.830 | 34.060 | 5.20 | 5.18 | Shall not be more than 10% by mass |
| 2 | 36.270 | 34.530 | 5.04 | | |
| 3 | 36.480 | 34.640 | 5.31 | | |



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Format No: CP/TF/01

# TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 02-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08/07 |
| **Identification Mark on Brick** | : | Wire Cut Brick |
| **Reference to BIS codes** | : | IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification<br>IS 3495 (Part I to 3) : 1992(RA 2011)<br>Method of Tests Burnt Clay Building Bricks<br>Part 1:Determination of Compressive Strength, (Cl 4.2.3)<br>Part 2:Determination of Water Absorption,(Cl 4.1.3)<br>Part 3: Determination of Efflorescence, (Cl 4) |
| **Date of test** | : | 27-07-2018 |

## COMPRESSIVE STRENGTH

| Sl.No. | Length (mm) | Breadth (mm) | Area ($mm^2$) | Failure Load (KN) | Compressive strength of individual bricks ($N/mm^2$) | Acceptablity as per IS 1077:1992, Clause 7.1 |
|---|---|---|---|---|---|---|
| 1 | 228.13 | 109.98 | 25090 | 206.7 | 8.2 | The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%. |
| 2 | 228.98 | 108.62 | 24872 | 197.6 | 7.9 | |
| 3 | 231.01 | 107.99 | 24947 | 201.3 | 8.1 | |
| 4 | 230.11 | 107.54 | 24746 | 199.5 | 8.1 | |
| 5 | 228.16 | 106.98 | 24409 | 194.6 | 8.0 | |
| Average of 5 bricks | | | | | 8.1 | |



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## CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 30-07-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08/08 |
| **Sample Type/ Size** | : | Precast concrete blocks for paving |
| **Reference to BIS codes** | : | IS 15658:2006 |
| **Date of test** | : | 26-07-2018 |

**1.Compressive Strength**

| Sl.No. | Dimension (mm) | | | Compressive Strength | Average |
|---|---|---|---|---|---|
| | L | B | T | ($N/mm^2$) | ($N/mm^2$) |
| 1 | 197.22 | 159.88 | 78.99 | 42.5 | 43.1 |
| 2 | 198.48 | 159.64 | 78.25 | 43.8 | |
| 3 | 199.54 | 159.54 | 78.48 | 42.5 | |
| 4 | 197.68 | 159.22 | 78.55 | 43.5 | |
| 5 | 198.11 | 159.87 | 78.32 | 42.8 | |
| 6 | 198.18 | 160.02 | 78.11 | 43.4 | |
| 7 | 198.45 | 158.99 | 77.98 | 43.2 | |
| 8 | 197.22 | 159.22 | 78.12 | 42.8 | |

**2. Water Absorption**

| Sl.No. | Wet Weight | Dry weight | Thickness | Water Absorption (%) | Average (%) |
|---|---|---|---|---|---|
| 1 | 4.987 | 4.828 | 77.85 | 3.29 | 3.64 |
| 2 | 4.898 | 4.721 | 78.22 | 3.75 | |
| 3 | 4.988 | 4.802 | 78.44 | 3.87 | |

**Note:**
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**FOR CIVIL Pro.**

CIVIL Pro Sig Date BANGALORE

**R KARTHIK RECHAN**
Authorized Signature
**Quality Manager**


*End of Report*

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Certificate No.: TC- 5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/08/2018

| | | |
|---|---|---|
| Lab ID | : | CP-2018-08-06-05 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Project Name | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| Agency | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| Customer's Reference | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 06-08-2018 |
| Sample ID No | : | 2018-08-06-05 /01 |
| Customer ID | : | PCC |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 11/08/2018 |

| SL No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 04/08/2018 | 11/08/2018 | 150.05 X 149.87 X 151.30 | 22488 | 8.198 | 407.8 | 18.1 | 18.5 |
| 2 | PCC | M20 | 04/08/2018 | 11/08/2018 | 149.20 X 149.67 X 151.07 | 22332 | 8.317 | 415.8 | 18.6 | |
| 3 | PCC | M20 | 04/08/2018 | 11/08/2018 | 151.93 X 150.18 X 149.94 | 22818 | 8.255 | 427.4 | 18.7 | |

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Quality Manager

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/08/2018

| | | |
|---|---|---|
| Lab ID | : | CP-2018-08-06-05 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| Project Name | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| Agency | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| Customer's Reference | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 06-08-2018 |
| Sample ID No | : | 2018-08-06-05 /03 |
| Customer ID | : | PCC |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 11/08/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 04/08/2018 | 11/08/2018 | 150.72 X 150.97 X 150.78 | 22753 | 8.104 | 411.6 | 18.1 | 18.3 |
| 2 | PCC | M20 | 04/08/2018 | 11/08/2018 | 151.93 X 151.09 X 151.39 | 22956 | 8.487 | 416.5 | 18.1 | |
| 3 | PCC | M20 | 04/08/2018 | 11/08/2018 | 150.30 X 149.12 X 150.21 | 22413 | 8.124 | 418.3 | 18.7 | |

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Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-06-05** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward No.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 06-08-2018 |
| **Sample ID No** | : | 2018-08-06-05 /05 |
| **Customer ID** | : | PCC |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 11/08/2018 |

**Date: 11/08/2018**

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 04/08/2018 | 11/08/2018 | 149.50 X 149.22 X 150.41 | 22310 | 8.562 | 416.7 | 18.7 | 18.6 |
| 2 | PCC | M20 | 04/08/2018 | 11/08/2018 | 151.95 X 151.97 X 151.14 | 23093 | 8.153 | 416.6 | 18.0 | |
| 3 | PCC | M20 | 04/08/2018 | 11/08/2018 | 149.04 X 149.94 X 150.76 | 22348 | 8.263 | 423.2 | 18.9 | |

**Note:**

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Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

CIVIL Pro Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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## TEST RESULTS OF GRADATION FOR WMM

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2018-08-01-08** **Date: 03-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-08-2018 |
| **Sample ID No** | : | 2018-08-01-08/01 |
| **Type of Mix** | : | WMM ( Wet Mix Macadam) |
| **Date of test** | : | 01-08-2018 |
| **Oven Dry Weight** | : | 11000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 303 | 303 | 2.8 | 97.2 | 95-100 |
| 22.4 | 2273 | 2576 | 23.4 | 76.6 | 60-80 |
| 11.2 | 2216 | 4792 | 43.6 | 56.4 | 40-60 |
| 4.75 | 2283 | 7075 | 64.3 | 35.7 | 25-40 |
| 2.36 | 1678 | 8753 | 79.6 | 20.4 | 15-30 |
| 0.6 | 656 | 9409 | 85.5 | 14.5 | 8-22 |
| 0.075 | 1365 | 10774 | 97.9 | 2.1 | 0-5 |

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Certificate No.: TC- 5548

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 30-07-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 27-07-2018 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| SLNo. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.95 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 285.4 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.12 | – |
| 4 | Standard Consistency (%) | 29.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 240 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

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Authorized Signatory
**Quality Manager**

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-07-26-08** **Date: 24-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite town Sub division, BBMP, Bangalore. |
| **Project Name** | : | Constructions of Compound wall and other additional works to Indira Canteen in Ward N0.04 |
| **Agency** | : | Technical Manager (West),KRIDL,BBMP,Bangalore. |
| **Customer's Reference** | : | BBMP/EE(YNK.D)/W.O/000005/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-07-2018 |
| **Sample ID No** | : | 2018-07-26-08 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 27-07-2018 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| SLNo. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 29.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.5N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 57.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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